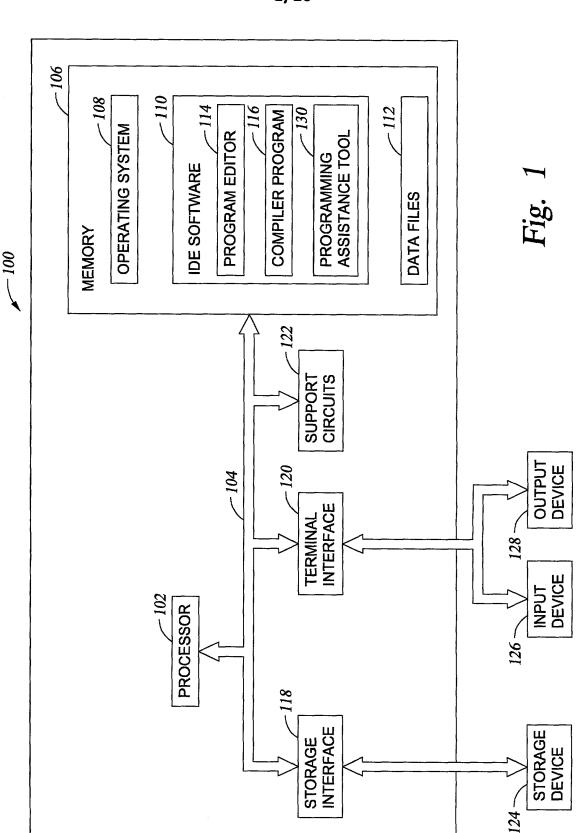
$ldsymbol{f L}$ 

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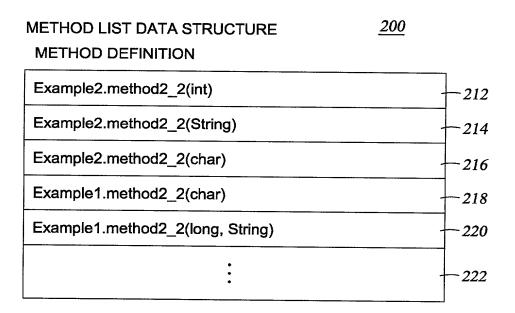


Fig. 2

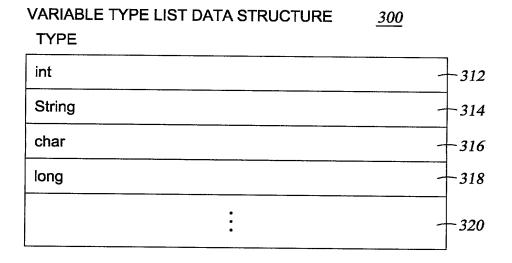


Fig. 3

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VARIABLE LIST DATA STRUCTURE (AFTER INTERNAL VARIABLES)

<u>400</u>

 $\neg$ 

## **VARIABLES**

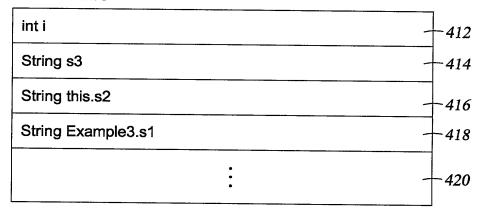


Fig. 4

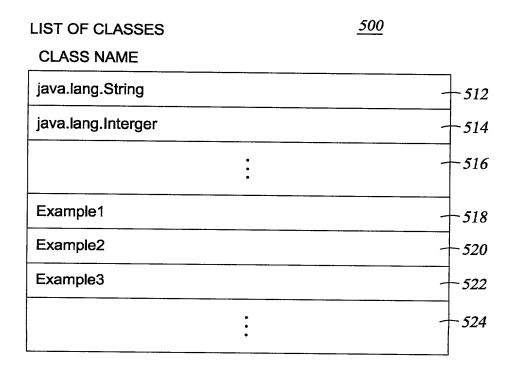


Fig. 5

 $\mathbb{L}$ 

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VARIABLE LIST DATA STRUCTURE (AFTER EXTERNAL VARIABLES)

<u>600</u>

 $\neg$ 

**VARIABLE** 

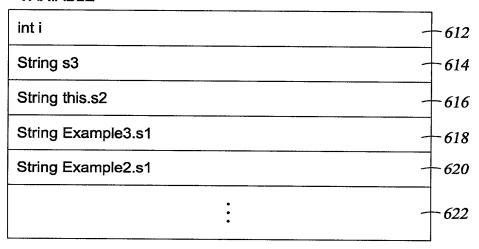


Fig. 6

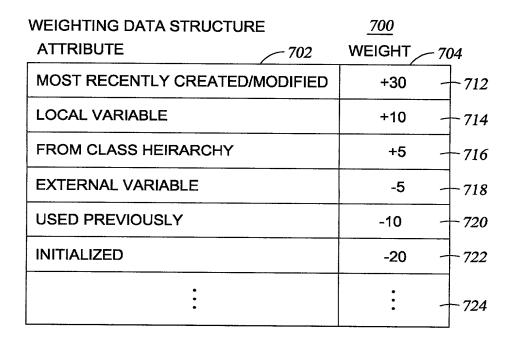


Fig. 7

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VARIABLE LIST DATA STRUCTURE (AFTER RANKING)	<u>800</u>		
VARIABLE 802		804	
int i	2		-812
String s3	45	_	-814
String this.s2	22	_	-816
String Example3.s1	10	-	-818
String Example2.s1	0		820
:	•		

Fig. 8

<u>90</u>	$\underline{o}$	
	002	904
VARIABLE	RANKING	
Sting S3	90%	+9
int i	90%	+9
String this.s2	45%	<del></del>
String Example3.s1	20%	-9
String <new></new>	5%	-9
int #	5%	<del>-</del> 9
Char "c"	5%	
long #	5%	+9
String Example2.s1	1%	+9

Fig. 9

 $ldsymbol{f L}$ 

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```
-10A
public String getLibraryName(String line)
    int size = line.length()
    String temp = null;
    if (size >= 10)
        temp = line.substring(0,10)
    else
        return null;
    String fileName = this.
                                                      1002A
                             begin(void) void
                             format (String) String
        return (fileName);
                             getSystemName(String) String
}
                             init(void) void
```

Fig. 10A

```
· 10B
public String getLibraryName(String line)
    int size = line.length()
    String temp = null;
    if (size >= 10)
        temp = line.substring(0, 10)
    return null:
                                       -1001B
    String fileName = this.format( ()
                                                   -1002B
                                     String fileName
        return (fileName);
                                     String line
                                     String temp
}
                                     String <new>
```

Fig. 10B

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## Fig. 11A

```
public class Example1 {
   public void method2_2(char c) {
     return;
  }
   public void method2_2(long I, String s) { // overloaded method
     return;
  }
}
public class Example2 extends Example1 {
   public static String s1 = "hello"; // class variable
   public String s2 = "there"; // instance variable
  public String s3 = "don't touch"; // variable inaccessable externally
   public static void method2_1() {// class method
     return;
   public static void method2_2(int i){ // instance method
     String s= "jump"; // local variable, instance of the String class
     Example2.method2_1(); // calling a class method on a class object
     s.length(); // calling an instance method
  }
   public void method2_2(String s){ // overloaded method
     return;
```

```
public void method2_2(char c){ // overloaded and overriden method
    return;
}

public class Example3 {
  private static Strig s1 = "class";
  private String s2 = "instance"

public void method3_1(int i) {
    String s3 = "local";
    Example2 ex2 = new Example2();
    ex2.method2_2(|-)—1001C
```

```
90%
     String s3
                            -1002C
90%
      int i
45%
      String this.s2
20%
     String Example3.s1
5%
      String <new>
5%
      int#
5%
      char 'c'
5%
      long#
     String Example2.s1
1%
```

Fig. 11B

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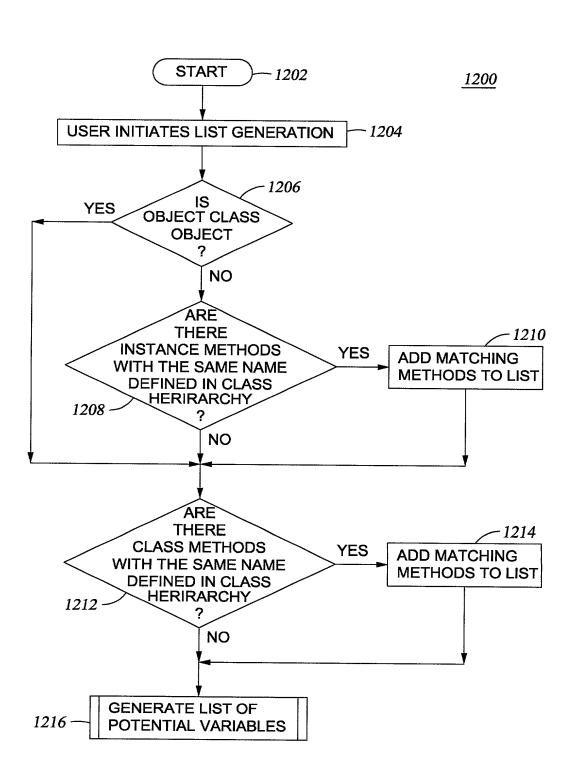


Fig. 12

 $ldsymbol{f eta}$ 

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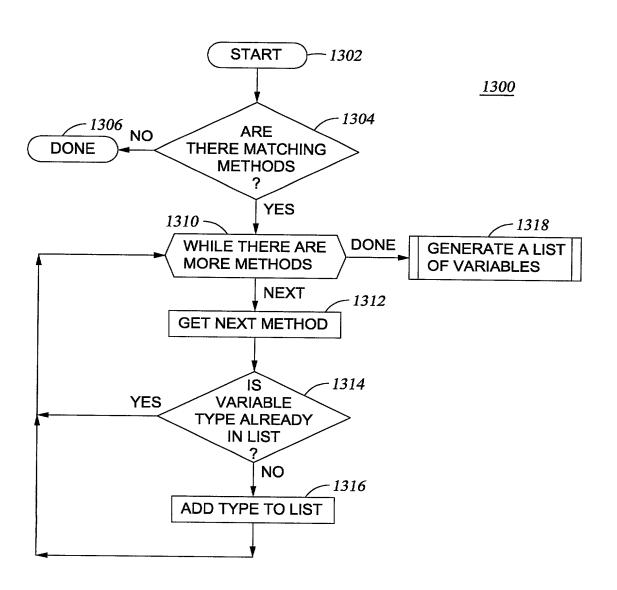
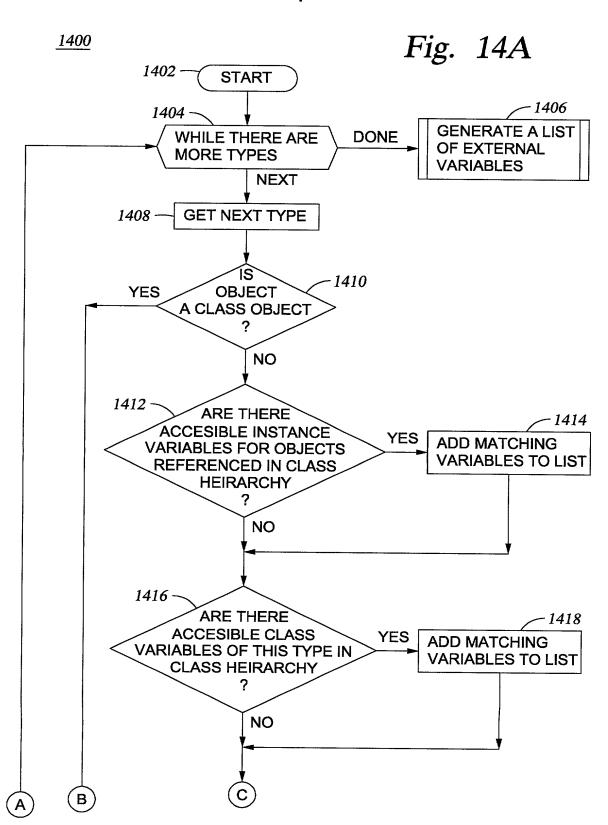


Fig. 13

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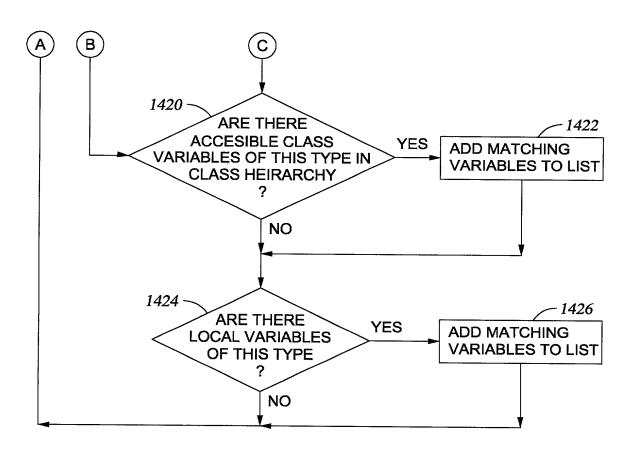


Fig. 14B

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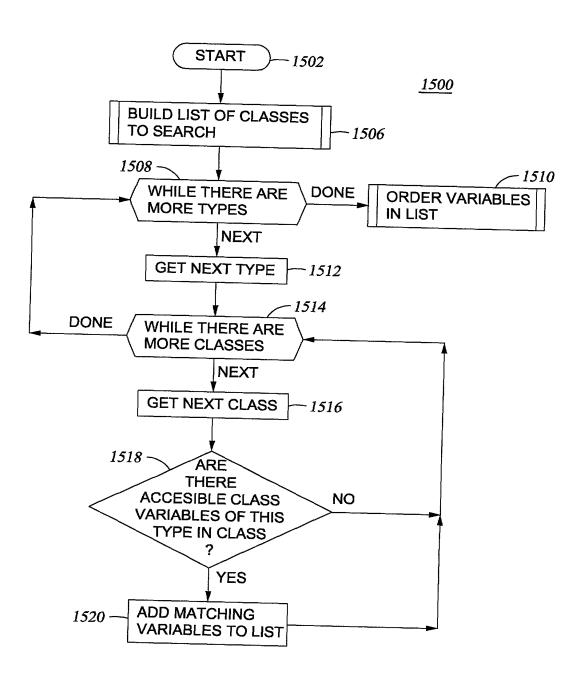


Fig. 15

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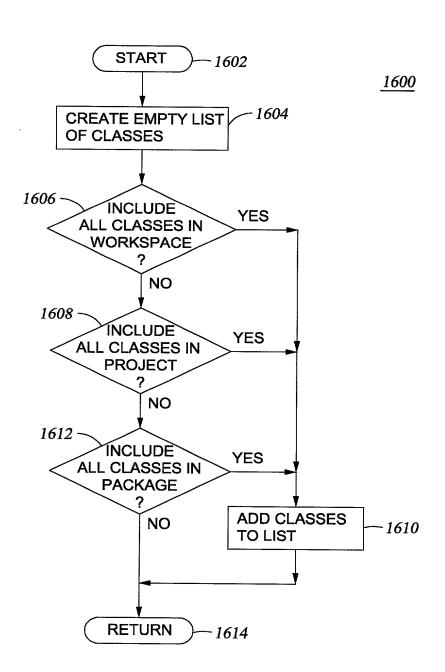


Fig. 16

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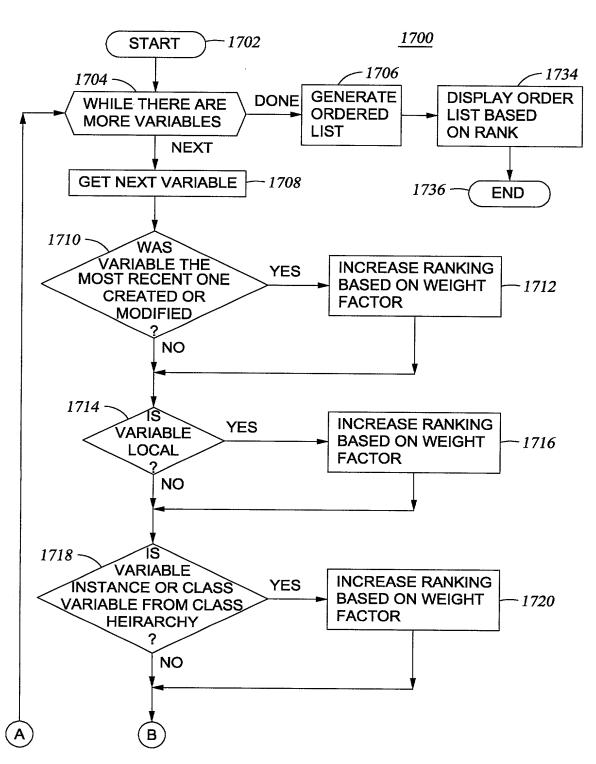


Fig. 17A

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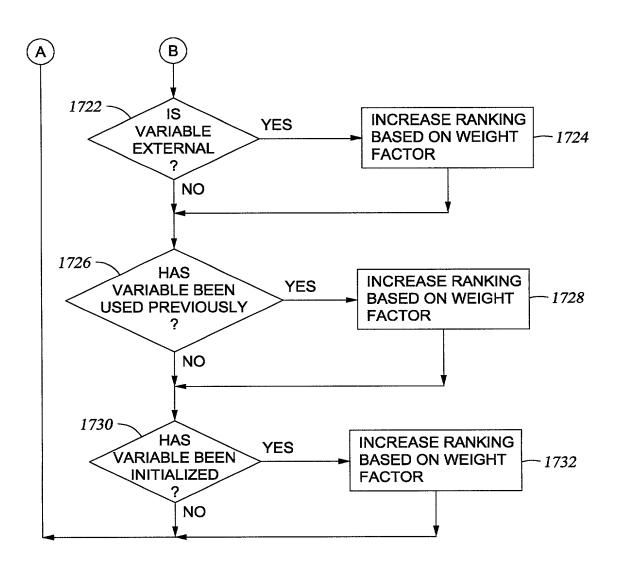


Fig. 17B